# VOLUME 5 DATA MANAGEMENT STUDY

APPENDIX H
CONTRACTOR DATA PACKAGE
LOGISTICS AND SUPPORT (LS)

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Voyager Spacecraft System Project

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Voyager Spacecraft System Project

PREPARED FOR

JET PROPULSION LABORATORY
CALIFORNIA INSTITUTE OF TECHNOLOGY
4800 OAK GROVE DRIVE
PASADENA, CALIFORNIA

UNDER JPL CONTRACT No. 951112



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#### INTRODUCTION

This appendix presents the Contractor Data Package (Data Item Matrix, Data Requirement Descriptions, User Flow Diagram, Document Relationship Tree, and Frequency and Phasing Charts for Logistics and Support (LS).

These data pertain to logistic concepts, programming, planning, and control pertinent to such areas as transportation, supply, maintenance, and support facilities.

The complete list of Contractor Data Package appendixes is as follows:

Appendix A - Technical Description and System Engineering (SE)

Appendix B - Planetary Quarantine (PQ)

Appendix C - Manufacturing (MG)

Appendix D - Configuration Management (CM)

Appendix E - Quality Assurance (QA)

Appendix F - Test (TE) and Mission Operations (MP)

Appendix G - Reliability Assurance (RA)

Appendix H - Logistics and Support (LS)

Appendix I - Overall Management (MA), Scheduling (SC), and Manning

and Financial (MF)

Appendix J - Procurement and Contracting (PC)

Appendix K - Data Management (DM)

Appendix L\* - Facilities (FA)

Appendix M\* - Safety (SA)

Appendix N\* - Site Activation for Launch (AL)

Appendix O\* - Science (SI)

Appendix P\* - Related Project Interfaces (RP)

Appendix Q\* - Advanced Missions (AM)

<sup>\*</sup> Appendixes L through Q prepared under Contract NAS 7-584

DATA ITEM NUMBER	DATA ITEM  LOGISTICS AND SUPPORT	DESCRIPTION
	LISTS	
LS- 001	*List, Long Lead Items	Identifies items that require special action to ensur required because it takes a long time to get these it established.
LS- 002	List, Priced Spares	Provides firm unit price, extended unit price and of to serve as a basis for spare hardware negotiations
LS- 003	List, Spares	Provides identifying next higher assembly, and main information as a basis for meeting maintenance requirements.
	MANUALS	
LS- 004	Manual, Assembly, Handling and Shipping Equipment (AHSE) Description/Operation and Maintenance	Defines operating and maintenance instructions for a handling, and shipping equipment.
LS- 005	Manual, Launch Complex Equipment (LCE) Installation	Defines installation procedures for launch complex e
LS- 006	Manual, Launch Complex Equip- ment (LCE) Description/Operation and Maintenance	Defines operating and maintenance procedures for la equipment.
LS- 007	Manual, Mission Dependent Equipment (MDE) Installation	Defines installation procedures for mission depender
LS- 008	Manual, Mission Dependent Equip- ment (MDE) Description/Opera- tion and Maintenance	Defines operating and maintenance procedures for m dependent equipment.
LS -	Manual, System Test Complex (STC) Installation	Defines installation procedures for system test comp
010	Manual, System Test Complex (STC) Description/Operation and Maintenance	Defines operating and maintenance procedures for sy complex, includes subsystem OSE as appendixes.

<sup>\*</sup> KEY INFORMAL DATA

# DATA ITEM LIST/USER MATRIX

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	PLANS	· ·
LS- 012	Plan, Logistics Support	Defines the overall logistics plan for the Voyager pro
LS- 013	Plan, Field Communications	Defines the lines of communication with field sites and criteria for their use.
LS- 014	Plan, Provisioning	Defines the plan and schedule for providing spares, el
LS- 015	Plan, Packaging	Defines the overall approach and criteria for packagir shipment
LS- 016	Plan, Site Support	Logistics plans for individual field sites which reflecting the context of problems associated with each site.
LS- 017	Plan, Transportation and Handling	Describes the plan for transportation of hardware an various field sites.
IS- 018	Plan, Field Storage	Defines the plan for storage of various pieces of equip
	PROCEDURES	
LS- 020	Modification Kit Instructions	Describes the procedure for performing a modificat installation, material, test and effectivity.
LS- 021	Procedure, Handling	Detailed procedure for handling specific pieces of ed movement and transportation to field sites.
LS- 027	Procedure, Storage	Detailed procedures for storing specific pieces of edperiods of inactivity.
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<sup>\*</sup> KEY INFORMAL DATA

# DATA ITEM LIST/USER MATRIX

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DATA	3 of 3	
DATA ITEM NUMBER	DATA ITEM	DESCRIPTION
	LOGISTICS AND SUPPORT	
	REPORTS	
LS- 023	Report, Logistics Summary	A final summary and analysis of the logistics Project.
LS- 025	Report, Modification Kit Status	Provides documentation covering responsibil a field modification on Voyager equipment.
LS- 026	Report, Provisioning Status	Provides documentation covering status of specific consumables, bulk items, etc.

<sup>\*</sup> KEY INFORMAL DATA

# DATA ITEM LIST/USER MATRIX

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#### USER FLOW DIAGRAMS

The Contractor User Flow Diagrams indicate the Logistics Support activities during all phases of the project. Logistics comprises the following: supply, transportation, communications and maintenance.

The Logistics Support Plan is derived from the systems engineering post-PDR documents, as are the plans covering individual logistics functions. As the plans are implemented with inputs from OSE design, maintenance manuals and spare parts lists are written. In addition, handling and storage procedures for OSE and the spacecraft evolve, and communications links are established for site support. Preliminary reports on site provisioning are issued.

After CDR, the TA hardware is packed and shipped for testing at the test sites. Manuals and parts lists are updated to suit OSE design updating and to incorporate approved parts from reliability assurance inputs.

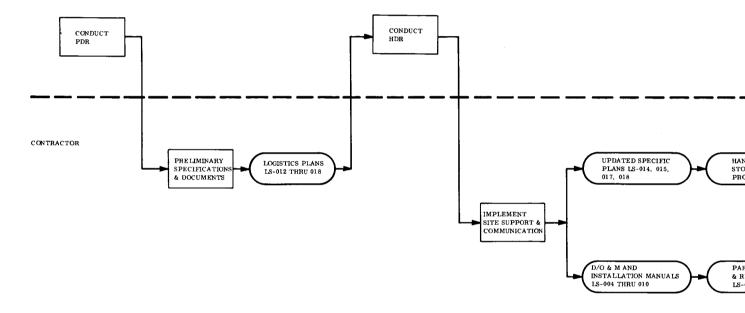
Post-FACI activities are the same as post CDR, except that MDE is packed and shipped to specified sites.

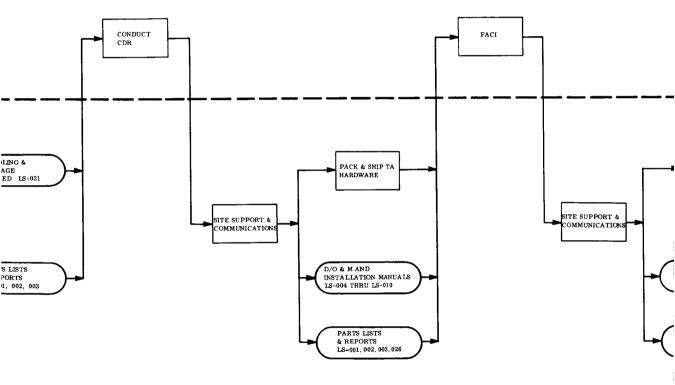
After MAR the spacecraft, OSE, and AHSE are shipped to the launch site, where installation, maintenance and modification are performed in accordance with manuals and modification instructions. Status reports and the Logistics summary report document the logistics support until launch.

# Logistics User Flow Diagrams

Figure Number	Title
H-1	Logistics User Flow Diagram - Summary
H-2	Logistics User Flow Diagram - Preliminary Design Review Through Critical Design Review
H-3	Logistics User Flow Diagram - Critical Design Review Through Launch

#### SYSTEM OFFICE





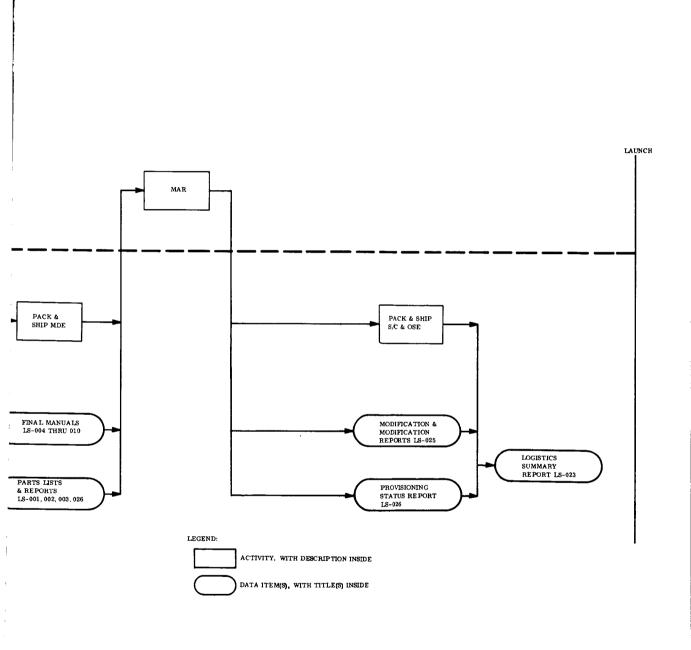
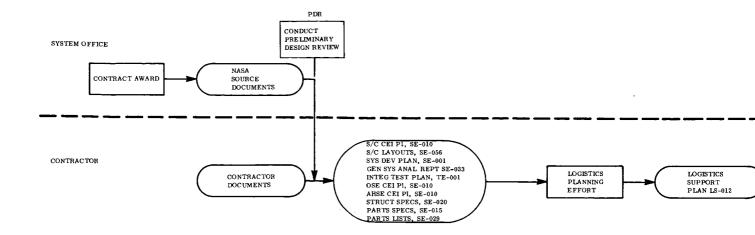
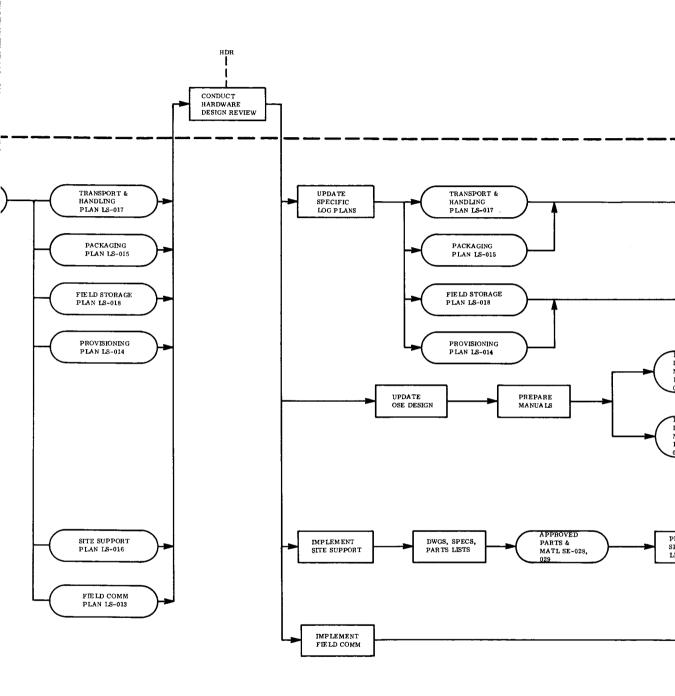


Figure H-1. Logistics User Flow Diagram - Summary





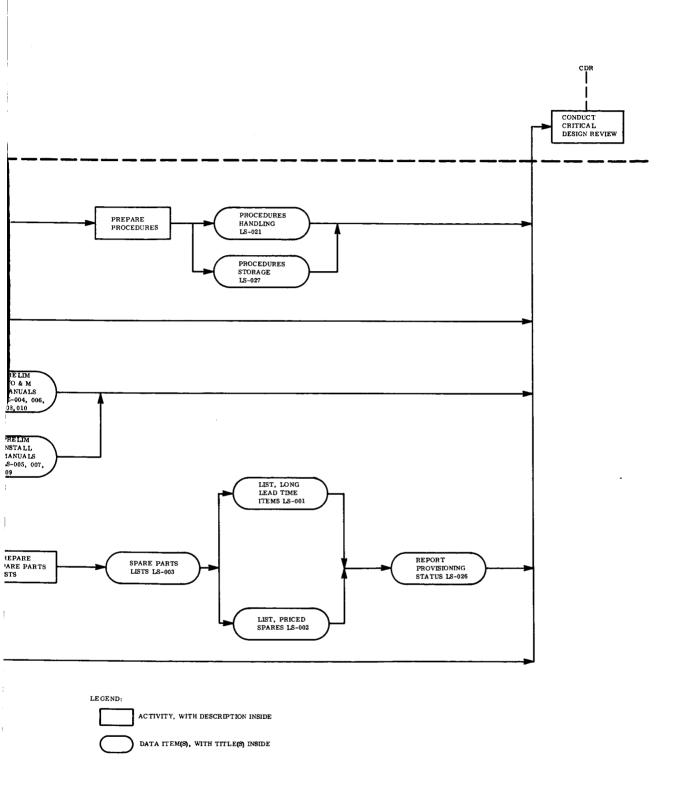
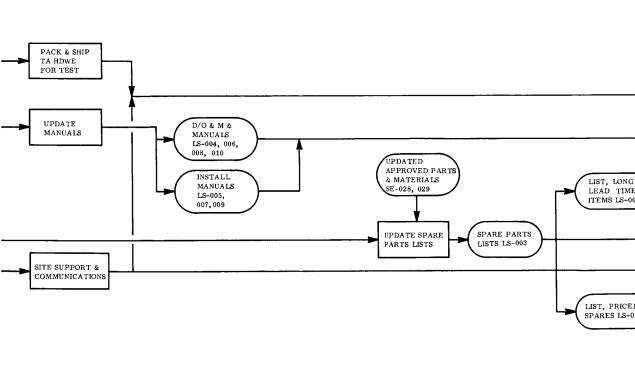
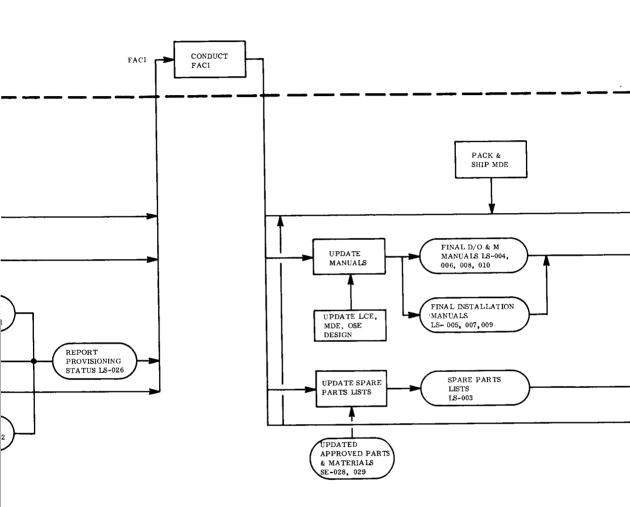
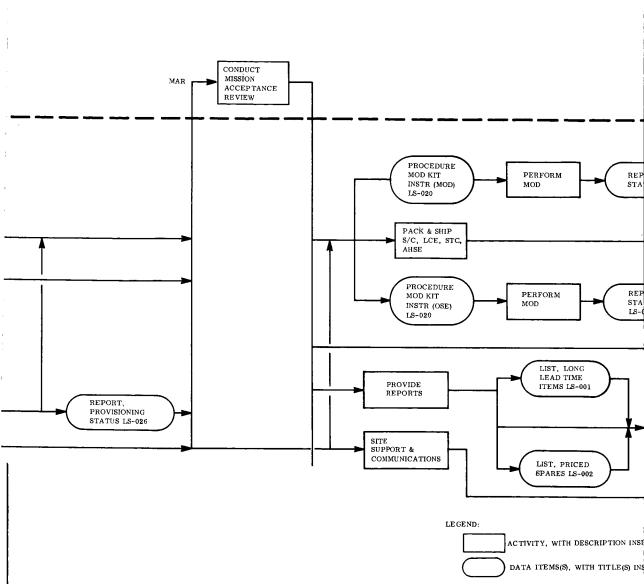


Figure H-2. Logistics User Flow Diagram -Preliminary Design Review Through Critical Design Review

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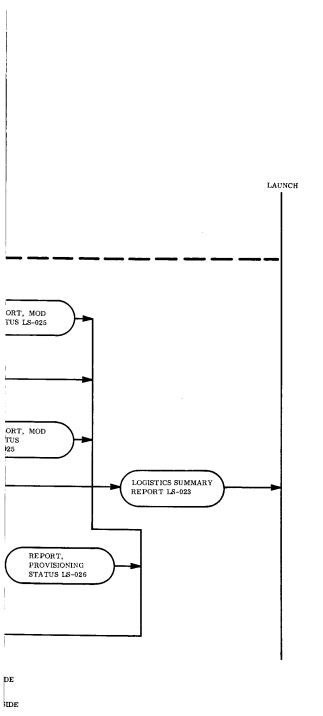


Figure H-3. Logistics User Flow Diagram - Critical Design Review Through Launch

## Logistics and Support Data Requirement Descriptions

<u>DRD</u> <u>Number</u>	<u>Title</u>
LS-001	*List, Long Lead Items
LS-002	List, Priced Spares
LS-003	List, Spares
LS-004	Manual, Assembly, Handling and Shipping Equipment (AHSE) Description/ Operation and Maintenance
LS-005	Manual, Launch Complex Equipment (LCE) Installation
LS-006	Manual, Launch Complex Equipment (LCE) Description/Operation and Maintenance
LS-007	Manual, Mission Dependent Equipment (MDE) Installation
LS-008	Manual, Mission Dependent Equipment (MDE) Description/Operation and Maintenance
LS-009	Manual, System Test Complex (STC) Installation
LS-010	Manual, System Test Complex (STC) Description/Operation and Maintenance
LS-012	Plan, Logistics Support
LS-013	Plan, Field Communications
LS-014	Plan, Provisioning
LS-015	Plan, Packaging
LS-016	Plan, Site Support
LS-017	Plan, Transportation and Handling
LS-018	Plan, Field Storage
LS-020	Instruction, Modification Kit
LS-021	Procedure, Handling
LS-023	Report, Logistics Summary
LS-025	Report, Modification Kit Status
LS-026	Report, Provisioning Status
LS-027	Procedure, Storage

<sup>\*</sup>Key Informal Data

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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET	
SPECIAL INSTRUCTIONS:	DRD NO.: LS-001
	120-001
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SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)	
OUTLINE OF CONTENTS:	
1. Introduction	
<ul><li>2. Scope</li><li>3. Description</li></ul>	
a. Identifying information	
(1) Item number	
(2) Nomenclature (3) Contractor part number	
(4) Manufacturer's part number	
b. Next higher assembly information	
(1) Quantity per assembly (2) Quantity per CEI	
(3) CEI number	
c. Lead time (weeks)	
d. Justification for long lead item classification	

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(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

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2.	Scope	
3.	Description a. Identifying information	
	(1) Item number	
	(2) Part number (3) Nomenclature	
	(4) Manufacturer's code	
	b. Price information	
	(1) Unit price (firm)	
	(2) Extended unit price (firm)	
	(3) Quantity c. Other information	
	(1) List number	
	(2) Date	
	(3) Revision number	
	d. Summary sheet	

JPL 2568-1 OCT 65

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1. Introduction 2. Scope	
3. Description	
a. Identifying information	
<ul><li>(1) Spare parts category</li><li>(2) Item number</li></ul>	
(3) Nomenclature	
(4) Contractor part number	
(5) Manufacturer's part number	
<ul> <li>b. Next higher assembly information</li> <li>(1) Quantity per assembly</li> </ul>	
(2) Quantity per end item	
(3) Spares, quarterly (total)	
(4) CEI number	
c. Maintenance information (1) Periodic replacement/overhaul time	
(2) Replacement part indicator	
(3) Lead time	
(4) Shelf life (in quarters)	

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(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

- (5) Mean time between failures (MTBF) and failure rate
- (6) Repair code
- d. Price information
  - (1) Unit price
  - (2) Extended unit price
  - (3) Unit pack
  - (4) Unit of issue
- e. Other information
  - (1) Date
  - (2) Revision
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VOYAGER DATA REQUIREMENT DESCRIPTION - 2ND SHEET

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DRD NO.:

LS-004

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#### OUTLINE OF CONTENTS:

- 1. Introduction
- 2. Scope
- 3. Hardware description
  - a. Capabilities and functions
  - b. Drawings and photographs
    - (1) Equipment layout
    - (2) Wiring diagrams and schematics
    - (3) Test points, adjustments, waveforms and voltages
  - c. Grounding and EMI Information
- 4. Operating instructions
  - a. On-off procedures
  - b. Operating procedures
  - c. Software use and checkout
  - d. Safety requirements
- 5. Maintenance
  - a. Inspection procedures
  - b. Trouble isolating procedure
  - c. Alignment and adjustment procedure
  - d. Preventive maintenance and lubrication
  - Total and test equipment requirements

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OUTLINE OF CONTENTS:	
<ol> <li>Purpose and scope</li> <li>Hardware description</li> </ol>	
a. Drawings, photographs, etc.	
b. Interface features such as:	
(1) Power required	
(2) Mechanical connections	
<ul><li>(3) Electrical connections</li><li>(4) Special requirements</li></ul>	
(5) Safety	
c. Equipment list	
d. Special tools required	
3. Description of intended location	her equinment
Drawings and diagrams showing location, orientation, etc, with respect to other	ior equipment.
4. Installation procedures	
a. Unpacking b. Inspection	
c. Installation	
d. Assembly	

- Checkout Buy-off e.
- f.
- Data sheets 5.

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- (1) Equipment layout
- (2) Wiring diagrams and schematics
- (3) Test points, adjustments, waveforms, and voltages
- Grounding and Electromagnetic interference (EMI) information
- 4. Operating instructions
  - a. On-off procedures
  - b. Operating procedure
  - Software use and checkout c.
  - Safety and requirements d.
- 5. Maintenance
  - a. Inspection procedure
  - Trouble isolating procedure
  - Alignment and adjustment procedure c.
  - d. Preventive maintenance and lubrication
  - Tool and test equipment requirements

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	b.	Interface features such as:	
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		(5) Safety	
	c.	Equipment list	
	d.	Special tools required	
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	a.	Drawings and diagrams showing location, orientation, etc., with respect to of equipment.	ine I

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

Installation procedures Unpacking

b. Inspection

a.

- c. Installation
- d. Assembly
- e. Checkout
- f. Buy-off
- 5. Data Sheets

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3.	Hardware description	
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	b. Drawings and photographs	
	(1) Equipment layout	
	(2) Wiring diagrams and schematics	
}	(3) Test points, adjustments, waveforms and voltages	
	c. Grounding and electromagnetic interference (EMI) information	
4.	Operating instructions	
	a. On-off procedures	
	b. Operating procedure	
	c. Software - use and checkout	
1	d. Safety requirements	

- 5. Maintenance
  - Inspection procedure a.
  - Trouble isolating procedure b.
  - Alignment and adjustment procedure c.
  - Preventative maintenance and lubrication
  - d.

Tool and test equipment requirements
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- b. Interface features such as:
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  - (2) Mechanical connections
  - (3) Electrical connections
  - (4) Special requirements
  - (5) Safety
- c. Equipment list
- d. Special tools required
- 3. Description of intended location
  - a. Drawings and diagrams showing location, orientation, etc. with respect to other equipment.
- 4. Installation procedures
  - a. Unpacking
  - b. Inspection

- c. Assembly
- d. Installation
- e. Checkout
- f. Buy-off
- 5. Data sheets

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DRD NO.:

LS-010

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#### OUTLINE OF CONTENTS:

- 1. Introduction
- 2. Scope
- 3. Hardware description
  - a. Capabilities and functions
  - b. Drawings and photographs
    - (1) Equipment layout
    - (2) Wiring diagrams and schematics
    - (3) Test points, adjustments, waveforms, and voltages
    - Grounding and electromagnetic interference (EMI) information
- 4. Operating instructions
  - 1. Turn-on procedure
  - 2. Operating procedure
  - 3. Software use and checkout
  - 4. Safety requirements
  - 5. Turn-off procedure
- 5. Maintenance
  - a. Inspection procedure
  - b. Trouble Isolating procedure

- c. Alignment and adjustment procedure
- d. Preventative maintenance and lubrication
- e. Tool and test equipment requirements

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3.	c. Previous experience Provisioning	
".	a. Spare parts selection	
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•	b. Inventory management	
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	a. Responsibility	
	b. Material movement	

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- c. Equipment description
- d. Schedule
- e. Delivery
- f. Alternate transportation media
- 6. Configuration updating (OSE)
  - a. Design change control
  - b. Modified kits
- 7. Communications
  - a. Types of equipment
- 8. Training
  - a. Proposed training courses
- 9. Technical handbooks
  - a. Types of manuals
- 10. Termination
  - a. Obsolete spare parts
  - b. Residual equipment

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OUTLINE OF CONTENTS:
1. Introduction and purpose 2. Scope
3. Communications media
a. Description
(1) Telephone (a) Leased Line
(b) Dial comm
(2) Control pouch mail
(3) Teletypewriter
(4) Teledata/flexowriter (5) Datafax or facsimilie
(6) Wide band (if required)
(7) Others
b. Planned installations
(1) At the launch site (2) At other field sites
c. Criteria for the use of communications media
4. Schedules

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(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

5. Training

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#### OUTLINE OF CONTENTS:

- 1. Purpose
- 2. Scope
- 3. Supply support
  - a. Spare parts
    - (1) Acquisition
      - (a) Routine
      - (b) Emergency
      - (c) Inter-site transfer
    - (2) Distribution
    - (3) Replacement of spares
    - (4) Storage and accounting
  - b. Bulk items
  - c. Consumables
- 4. Reports
  - a. Provisioning status
  - b. Delinquency report
  - c. Receiving reports
  - d. Failure and consumption reports
- 5. Termination of spare parts
  - a. Obsolete Spare Parts (CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

- b. Residual spare partsc. Shelf life expired items6. Schedules

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#### OUTLINE OF CONTENTS:

- 1. Scope
- 2. Applicable documents
- 3. Approach and concepts
  - a. General considerations
    - (1) Cleanliness
    - (2) Safety
    - (3) Contamination
    - (4) Magnetics
  - b. Approach
    - (1) Quantity items
    - (2) Components and assemblies
    - (3) Systems
    - (4) OSE
- 4. Packaging criteria
  - a. Packaging and packing requirements as a function of:
    - (1) Size of the item and weight
    - (2) Type of equipment
    - (3) Mode of transportation
    - (4) Etc.

- b. Constraints
  - (1) Environmental
  - (2) Other
- c. Explosive or special materials
- 5. Subcontractor and vendor packaging
- 6. Security (as required)

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	b. Provisioning	
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	(2) Spare parts and materials	
	(3) Bulk items	
	(4) Special tools and equipment	
	c. Communications plan d. Transportation plan	
	e. Maintenance	
4.	Site activation	
	a. Personnel and training	
1	b. Equipment installation and check-out	
	c. Schedules	
5.	Reporting and control	
6.	References	
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	a. Major items	
	b. Packaging	
2.	c. Specifications/exhibits Responsibility	
	a. Customer responsibility	
	b. Contractor responsibility	
3.	Material movement	
	a. Movement of equipment between locations	
	<ul><li>b. Basic transportation mode</li><li>c. Transportation routing</li></ul>	
4.	Equipment description	
	a. Items of equipment	

5. Schedule

Vehicle a.

c. FOB point

b. Transportation medium

- OSE b.
- Spares c.

- 6. Delivery
  - a. Shipping document preparation
    b. Transportation arrangements
    c. Special handling considerations
    Alternate transportation media
    a. Highway shipment
    b. Railway shipment
- 7.

  - c. Waterway

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JPL 2568 OCT 65

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Purpose Scope Storage plans (by equipment type and location) a. Requirements b. Environmental constraints (temperature, humidity, cleanliness, etc.) c. Monitoring d. Special packaging	
e. Storage location  Maintenance Reactivation of stored equipment Schedules Procedures	
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JPL 2568 OCT 65

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OHT	INE OF CONTENTS:	
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1.	Purpose	
2.	Applicable documents	
3.	Retrofit authorization	
4.	Instructions	
	a. Installation detailed instruction	
	b. Material - material required	
	c. Test - special test requirements and instructions to check out change	
	d. OSE - special requirements or procedure	
5.	Effectivity	
	a. Flight hardware retrofit number	
1	b. OSE retrofit number	

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

c. Location

6. Notes

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OUTLINE OF CONTENTS.	
1. Objectives and scope	
2. Requirements	
a. Personnel	
b. Configuration	
c. Equipment	
d. Instrumentation (as applicable) e. Applicable documents	
f. Environmental controls and constraints	
3. Special instructions	
a. Safety	
b. Cleanliness	
c. Sign-off	
d. Terminal arrangements e. Traffic Management	
f. Security	
g. Others,as required	
(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)	

- 4. Procedure
  - a. Preparation
  - b. Inspection
  - c. Loading and handling
  - d. Unloading
  - e. Inspection
- 5. Report of movement

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		CONTENTS:	
1. 2.		oduction and scope	
2. 3.		nmary and overall recommendations sistics activities	
υ.	a.	Supply summary	
	a.	(1) Procedure for identifying type and number of spares.	
		(2) Spares distribution (planned and actual)	
		(3) Bulk items and consumables (planned and actual)	
	b.	Transportation summary	
		(1) Mode used to various sites and alternates used	,
		(2) Planned versus actual transportation times	
		(3) Packaging and effectiveness	
		(4) Storage	
		(5) Failures attributed to or resulting from transportation and storage	
	c.	Maintenance summary	
		(1) Modifications	
		(2) Manuals	

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(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

(3) Procedures(4) Special tools

- d. Communications summary
  - (1) Summary of communications by type related to activities by date.
  - . Training
- 4. Analysis and evaluation
  - a. Analysis
  - b. Conclusions and recommendations
    - (1) Spares
      - (a) Number
      - (b) Distribution
      - (c) Control
    - (1) Maintenance
    - (2) Transportation
    - (3) Communication
- 5. References

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VOYAGER	ΠΔΤΔ	REQUIREMENT	DESCRIPTION	- 2ND	SHEET

SPECIAL INSTRUCTIONS:

DRD NO.: LS-025

Modification Kit Status Reports may be prepared on printed forms. They shall be issued periodically beginning with the assembly of the modification kit in the factory and shall continue until the modification is completed.

SPECIAL DISTRIBUTION: (IF DISTRIBUTION IS NOT COVERED BY AN EXISTING DDL WRITE IN DISTRIBUTION BELOW)

#### OUTLINE OF CONTENTS:

- 1. Modification kit identification
  - a. Title
  - b. Identifying number
  - c. Date of report
  - d. Name of person preparing report
  - e. Priority of modification kit
- 2. Description
  - a. Modification
    - (1) Nature of modification
    - (2) Revision (as applicable)
  - b. Equipment being modified
    - (1) Type of equipment
    - (2) Modification number

(CONTINUE ON THIRD SHEET, IF NECESSARY, AND AFFIX TO THIS DRD.)

#### 3. Status

- a. Description of current status (may be coded for progressive steps in the initiation/completion cycle)
- b. Need date
- c. Promise date
- d. Shipment date
- e. Received date
- f. Modification complete
- g. Buy-off date
- 4. References and codes (as applicable)

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1. Purpose 2. Scope 3. Contents a. Part number b. Federal supply code for manufacturers (FSCM) (if applicable) c. Nomenclature d. Date ordered e. Quantity ordered f. Delivery schedule g. Location h. Date shipped i. Inventory at location j. Quantity delinquent (if any) k. Price 4. Distribution	

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OUTLINE OF CONTENTS:	
<ol> <li>Objectives and scope</li> <li>Requirements         <ul> <li>Configuration</li> <li>Equipment</li> <li>Applicable documents</li> <li>Environmental conditions</li> </ul> </li> </ol>	
3. Special instructions a. Safety b. Cleanliness c. Sign-off	
<ul> <li>d. Other as required</li> <li>4. Procedure</li> <li>a. Disassembly (as required)</li> <li>b. Cleaning, purging, sealing, etc., as required</li> <li>c. Final preparations</li> </ul>	
5. Data Sheets	

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#### DOCUMENTATION RELATIONSHIP TREES

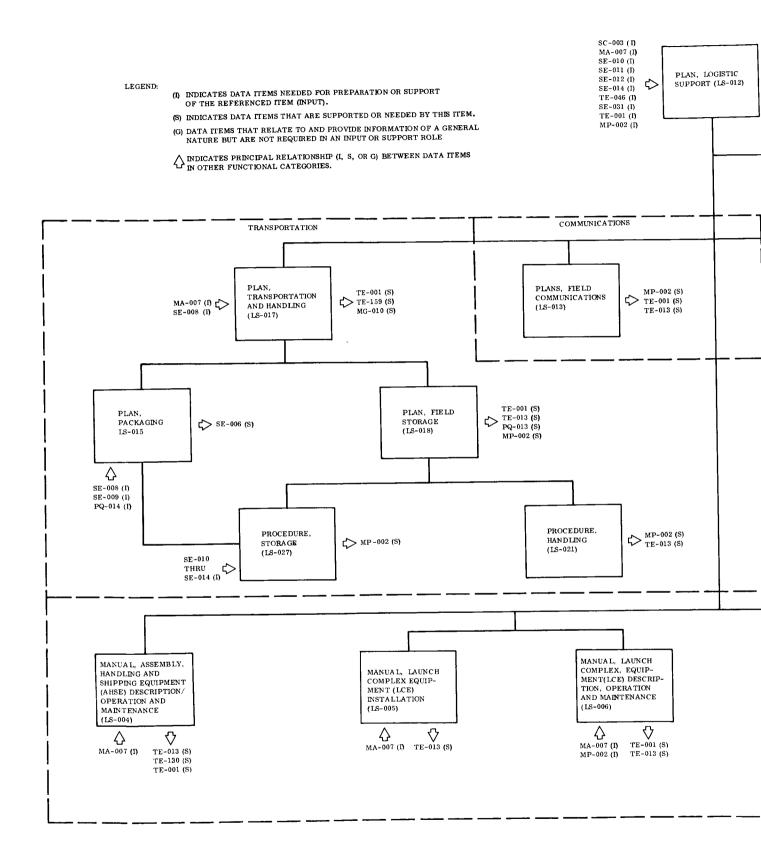
A documentation relationship tree has been prepared to show the relationships of data items within each functional category as well as their relationships across categories.

Relationships within each functional category are shown by constructing a tier pattern beginning with the top-level (or governing) data item and relating in descending order all data items within the category to this top-level data item. (The location of a data item at a given level on the diagram does not necessarily indicate the importance of that specific item but identifies and defines its relation to all other data items in that category.)

Relationships between data items in one category and data items in other functional categories are shown by (1) shaded arrows to indicate the direction of the relationship and (2) an alphabetic code to indicate the nature of the interrelationship as follows:

- a. Data items needed for preparation and/or support of the referenced item. (I)
- b. Data items that are supported or needed by this data item. (S)
- c. Data items that relate "to" and provide information of a general nature but are not required in an input or support role. (G)

Each data item appearing on the Data Item List (DIL) was examined and evaluated with respect to its contribution to, or dependence upon, data items appearing in other categories and is included in the diagrams. Additionally, certain data elements indicated in the user flow diagrams (but currently not identified as individual data items) have been shown within a dashed rectangle to clarify relationships.



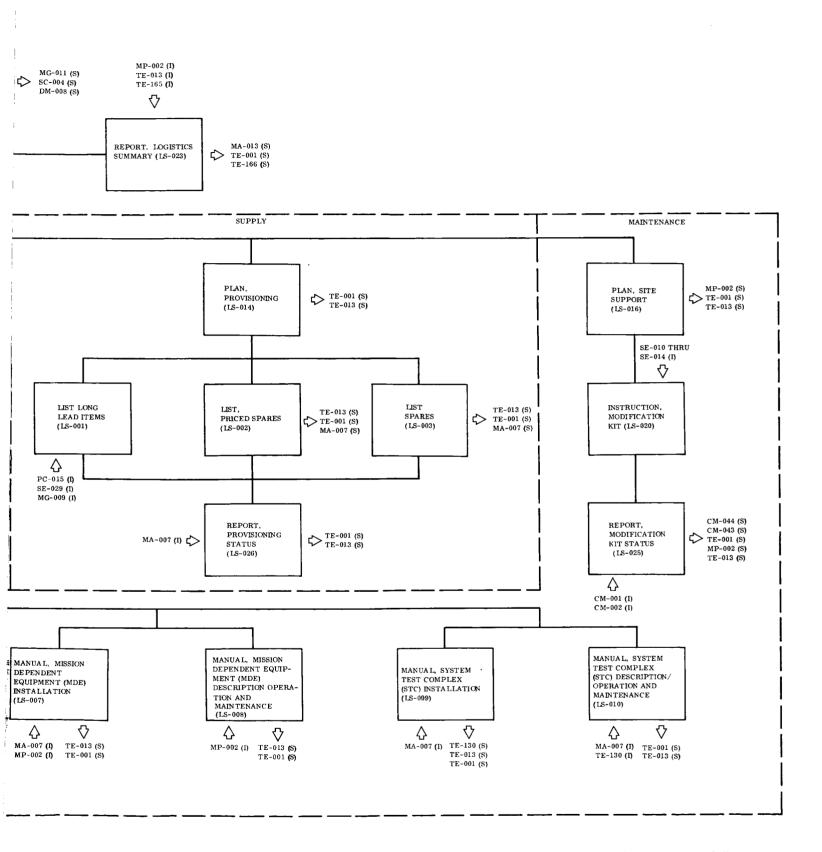


Figure H-4. Logistics and Support Documentation Relationship Tree (LS)

### DATA ITEM PHASING/FREQUENCY

Frequency and phasing of preparation requirements of data items pertaining to Logistics activities are shown in Figure H-5, Logistics Data Item Phasing and Frequency Matrix. Data item preparation, except for the preparation of support plans, lags final design and hardware development and continues throughout the contract period.

Figure H-6, Logistics Data Item Density Profile, shows the density of requirements for data item preparation in averages per month per major project review period.

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Figure H-5. Logistics Data Item Phasing and Frequency Matrix



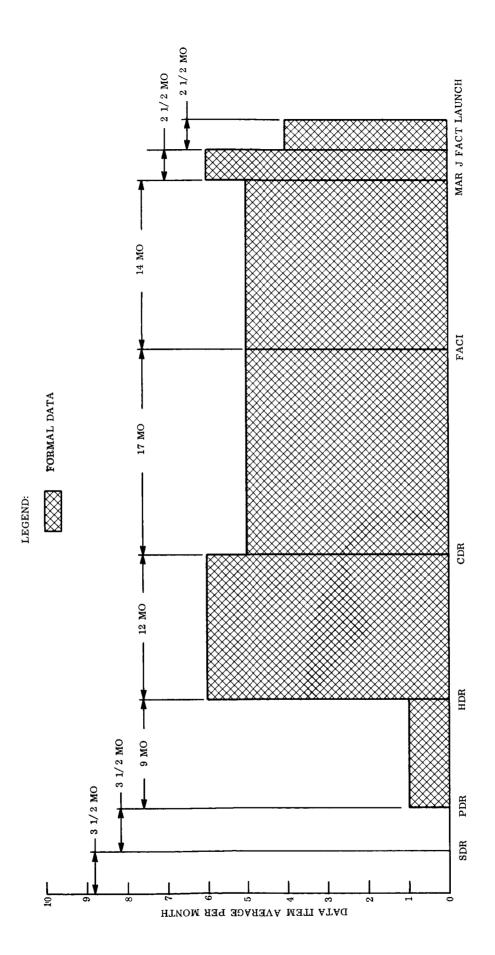


Figure H-6. Logistics Data Item Density Profile